TEJUS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand	Proposed Use	concrete	
Sample Location	At Site/Plant	Date of Sampling	05-06-2020	
		Date of Testing	05-06-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	308	522	17.40	82.60	75 - 100
1.18 mm	414	936	31.20	68.80	55 - 90
0.600 mm	488	1424	47.47	52.53	35 -59
0.300 mm	765	2189	72.97	27.03	8-30
0.150 mm	632	2821	94.03	5.97	0 - 10
Pan	179	3000			-

Remarks : Satisfactory / Not Satisfactory

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Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Site/Plant		Date of Sampling	05-06-2020	
			Date of Testing	05-06-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	552	552	5.52	94.48	90-100
10.0	4680	5232	52.32	47.68	40-85
4.75	4465	9697	96.97	3.03	0-10
Pan	303	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	Plant/At site		Date of Sampling	05-06-2020	
			Date of Testing	05-06-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	254	254	2.54	97.46	95 - 100
10.00 mm	4846	5100	51.00	49.00	25 - 55
4.75 mm	4222	9322	93.22	6.78	0 - 10
Pan	678	10000			

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	06-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	103 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	498 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	concrete
Location/Source	At Laboratory	**Date of Sampling**	05-06-2020
Period of Soaking	24 hours	**Date of Testing**	06-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		662	673	658	
B	Weight of oven - dry sample gm.		654	666	649	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1698	1689	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.669	2.664	2.660	**2.664**
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.223	1.051	1.387	**1.220**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Site/Plant		Date of Sampling	06-06-2020	
			Date of Testing	06-06-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	554	554	5.54	94.46	90-100
10.0	4468	5022	50.22	49.78	40-85
4.75	4528	9550	95.50	4.50	0-10
Pan	450	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	06-06-2020
		Date of Testing	06-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	252	252	2.52	97.48	95 - 100
10.00 mm	4872	5124	51.24	48.76	25 - 55
4.75 mm	4272	9396	93.96	6.04	0 - 10
Pan	604	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Laboratory	Date of Sampling	06-06-2020
Period of Soaking	24 hours	Date of Testing	07-06-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	644	660	673	
B	Weight of oven - dry sample gm.	635	653	664	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1680	1689	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.654	2.656	**2.656**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.417	1.072	1.355	**1.282**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand	Proposed Use	concrete	
Sample Location	At Site/Plant	Date of Sampling	07-06-2020	
		Date of Testing	07-06-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	203	203	6.77	93.23	90 - 100
2.36 mm	312	515	17.17	82.83	75 - 100
1.18 mm	414	929	30.97	69.03	55 - 90
0.600 mm	488	1417	47.23	52.77	35 -59
0.300 mm	768	2185	72.83	27.17	8-30
0.150 mm	652	2837	94.57	5.43	0 - 10
Pan	163	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	01-06-2020	08-06-2020	7 days	8.122	22500	300	13.33	13.56
2	01-06-2020	08-06-2020	7 days	8.132	22500	305	13.56	
3	01-06-2020	08-06-2020	7 days	8.142	22500	310	13.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-06-2020	09-06-2020	7 days	8.126	22500	305	13.56	13.78
2	02-06-2020	09-06-2020	7 days	8.124	22500	315	14.00	
3	02-06-2020	09-06-2020	7 days	8.140	22500	310	13.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	03-06-2020	10-06-2020	7 days	8.143	22500	300	13.33	13.38
2	03-06-2020	10-06-2020	7 days	8.145	22500	301	13.38	
3	03-06-2020	10-06-2020	7 days	8.136	22500	302	13.42	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-06-2020	11-06-2020	7 days	8.126	22500	295	13.11	13.26
2	04-06-2020	11-06-2020	7 days	8.134	22500	298	13.24	
3	04-06-2020	11-06-2020	7 days	8.148	22500	302	13.42	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-06-2020	12-06-2020	7 days	8.140	22500	302	13.42	13.59
2	05-06-2020	12-06-2020	7 days	8.134	22500	305	13.56	
3	05-06-2020	12-06-2020	7 days	8.138	22500	310	13.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-06-2020	13-06-2020	7 days	8.136	22500	302	13.42	13.48
2	06-06-2020	13-06-2020	7 days	8.146	22500	303	13.47	
3	06-06-2020	13-06-2020	7 days	8.142	22500	305	13.56	

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Yelahanka Zone
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KERB STONE (CORE) TEST REPORT

Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
	:	Bruhat Bengaluru Mahanagara Palike
or	:	Sri. Santhosh Kumar K R
nt	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
mple Tested	:	3
sting	:	15-06-2020
Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Concrete	:	M_{15}

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	85.00	0.357	2139.04	1.70	0.960	28.48	14.50	15.67	15.04	18.80
50.00	85.00	0.359	2151.03	1.70	0.960	28.50	14.51	15.68	15.05	18.81
50.00	85.00	0.374	2240.90	1.70	0.960	28.54	14.54	15.70	15.07	18.84

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indicated above are based on the tests carried out on the samples received in the laboratory.
regarding the report must be reported reported within 90 days from the date of testing.

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Consultant's Representative

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. Santhosh Kumar K R
Name of Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
No.of Sample Tested	:	3
Date of Testing	:	15-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.388	2396.52	1.80	0.960	159.34	20.29	21.91	21.03	26.29
2	100.00	180.00	3.420	2419.16	1.80	0.960	159.30	20.28	21.91	21.03	26.29
3	100.00	180.00	3.326	2352.66	1.80	0.960	159.44	20.30	21.92	21.05	26.31

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. Santhosh Kumar K R
Name of Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
No.of Sample Tested	:	3
Date of Testing	:	15-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	100.00	0.465	2368.23	2.00	1.000	38.42	19.57	21.13	21.13	26.42
2	50.00	100.00	0.472	2403.88	2.00	1.000	38.38	19.55	21.11	21.11	26.39
3	50.00	100.00	0.458	2332.57	2.00	1.000	38.24	19.48	21.03	21.03	26.29

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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KERB STONE (CORE) TEST REPORT

of Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
	:	Bruhat Bengaluru Mahanagara Palike
spector	:	Sri. Santhosh Kumar K R
nsultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Sample Tested	:	3
of Testing	:	16-06-2020
nical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.362	2169.00	1.70	0.960	28.42	14.47	15.63	15.01	18.76
2	50.00	85.00	0.370	2216.93	1.70	0.960	28.46	14.49	15.65	15.03	18.78
3	50.00	85.00	0.378	2264.87	1.70	0.960	28.36	14.44	15.60	14.98	18.72

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.

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Consultant's Representative

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. Santhosh Kumar K R
Name of Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
No.of Sample Tested	:	3
Date of Testing	:	16-06-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} - 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	100.00	0.460	2342.76	2.00	1.000	38.30	19.51	21.07	21.07	26.33
2	50.00	100.00	0.465	2368.23	2.00	1.000	38.36	19.54	21.10	21.10	26.37
3	50.00	100.00	0.462	2352.95	2.00	1.000	38.26	19.49	21.04	21.04	26.31

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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